

10/13/2025

Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda
Rua Hungria, 888
8th floor
São Paulo, Brazil
01455-000

Dear Nic Holmes,

Enclosed is the EMC test report for compliance testing of Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda, HID Amico Facial Reader, tested to the requirements of:

- FCC Part 15 Subpart C and RSS-210 Issue 11

Thank you for using the services of Eurofins E&E North America. If you have any questions regarding these results or if we can be of further service to you, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Nancy LaBrecque".

Nancy LaBrecque
Documentation Department
Eurofins Electrical and Electronic Testing NA, Inc.

Reference: WIRA136636 – FCC-IC-LF_R1

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Eurofins MET Laboratories Inc. (Eurofins E&E North America) is part of the Eurofins Electrical & Electronics (E&E) global compliance network.



**125kHz RFID
Test Report**

for the

**Controlid Industria e Comercio de Hardware e Servicios De Tecnologia Ltda
HID Amico Facial Reader (Model: VL35LF)**

Tested under the FCC and ISED Certification Rules for
FCC Part 15 Subpart C and RSS-210 Issue 11



Bryan Taylor, Wireless Team Lead
Electromagnetic Compatibility Lab



Nancy LaBrecque
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.



Matthew Hinojosa
EMC Manager, Austin Electromagnetic Compatibility Lab

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	July 25, 2025	Initial Issue.
1	10/13/2025	TCB Reviewer Comments

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Executive Summary

A. Purpose of Test

An EMC evaluation was performed to determine compliance of the Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda HID Amico Facial Reader, with the requirements of FCC Part 15 Subpart C and RSS-210 Issue 11. In accordance with FCC Part 15 Subpart C and RSS-210 Issue 11, the following data is presented in support of the Certification of the HID Amico Facial Reader. Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the HID Amico Facial Reader, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15C and RSS-210, in accordance with Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda, under purchase order number HID026483. All tests were conducted using measurement procedures ANSI C63.4-2014 and C63.10-2013.

FCC Reference	ISED Reference	Description	Compliance
Part 15 §15.203	---	Antenna Requirement	Compliant
Part 15 §15.207(a)	RSS-Gen (8.8)	Conducted Emission Limits	Compliant
Part 15 §15.215	---	20dB Occupied Bandwidth	Compliant
---	RSS-Gen (6.7)	99% Occupied Bandwidth	Compliant
Part 15 §15.209	RSS-210 (7.2) RSS-Gen (8.9)	General Field Strength Limitations	Compliant

Table 1. Executive Summary

Equipment Configuration

A. Overview

Eurofins E&E North America was contracted by Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda to perform testing on the HID Amico Facial Reader.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda HID Amico Facial Reader.

The results obtained relate only to the item(s) tested.

Product Name:	HID Amico Facial Reader	
Model(s) Tested:	VL35LF	
Model(s) Covered:	VL35LF	
Test Sample Number:	25570-7	
EUT Specifications:	Primary Power: 12VDC via AC / DC Power Adapter	
	Type of Modulation(s):	ASK
	Equipment Code:	DCD
	Maximum field Strength:	53.44dBuV/m
	Antenna Type:	loop
	EUT Frequency Ranges:	125kHz
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
Evaluated by:	Bryan Taylor and Frank Hernandez	
Report Date:	July 25, 2025	

Table 2. EUT Summary Table

B. References

CFR 47, Part 15, Subpart C	Federal Communication Commission, Code of Federal Regulations, Title 47, Part 15: General Rules and Regulations, Allocation, Assignment, and Use of Radio Frequencies
ANSI C63.4:2014	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
ISO/IEC 17025:2017	General Requirements for the Competence of Testing and Calibration Laboratories
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
RSS-210 Issue 11	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-Gen Issue 5: April 2018	General Requirements for Compliance of Radio Apparatus

Table 3. References

C. Test Site

Eurofins MET Laboratories Inc. (Eurofins E&E North America) is part of the Eurofins Electrical & Electronics (E&E) global compliance network.

All testing was performed at Eurofins E&E North America, 13501 McCallen Pass, Austin, TX 78753. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

ISED Lab Info:

CAB Identifier: US0004

Company Number: 2043D

FCC Lab Info:

Designation Number: US1127

Radiated Emissions measurements were performed in a 10 meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

Correlation between semi-anechoic chamber and OATS:

Two calibrated Loop antennas were used on an OATS. One antenna was driven by a signal generator with a known power. The receive antenna was initially placed 1m away from the transmit antenna. The two antennas were placed parallel to each other. The receive antenna was in turn connected to a calibrated spectrum analyzer. The emissions were swept from 9 kHz to 30 MHz. The receive antenna was then rotated 90 degrees and measurements re-taken. Additional measurements were taken when the receive antenna was placed at 3meters.

This same setup was taken to inside the semi-anechoic chamber and the measurements repeated.

The data was used to correlate the semi-anechoic chamber and OATS.

D. Measurement Uncertainty

Test Method	Typical Expanded Uncertainty	K	Confidence Level
RF Frequencies	±4.52 Hz	2	95%
RF Power Conducted Emissions	±2.97 dB	2	95%
RF Power Radiated Emissions	±2.95 dB	2	95%
Radiated Emissions, (30 MHz – 1 GHz)	±2.95 dB	2	95%
Radiated Emissions, (1 GHz – 18 GHz)	±3.54 dB	2	95%
Conducted Emission Voltage	±2.97 dB	2	95%

Table 4. Uncertainty Calculations Summary

E. Description of Test Sample

The HID Amico Facial Recognition Reader, is an access control reader employing facial recognition technology, as well as RFID and Bluetooth technologies.

The VL35LF has an LF, HF and a BLE radio on board enables the use of traditional RFID access control as well as mobile access through cell phone BLE and the HID Mobile Access App.

The VL35LF allows a user that is enrolled to access a door through the means of facial recognition (by looking into the cameras on the screen) or presenting an RFID credential, in the form of a fob, card or mobile device.

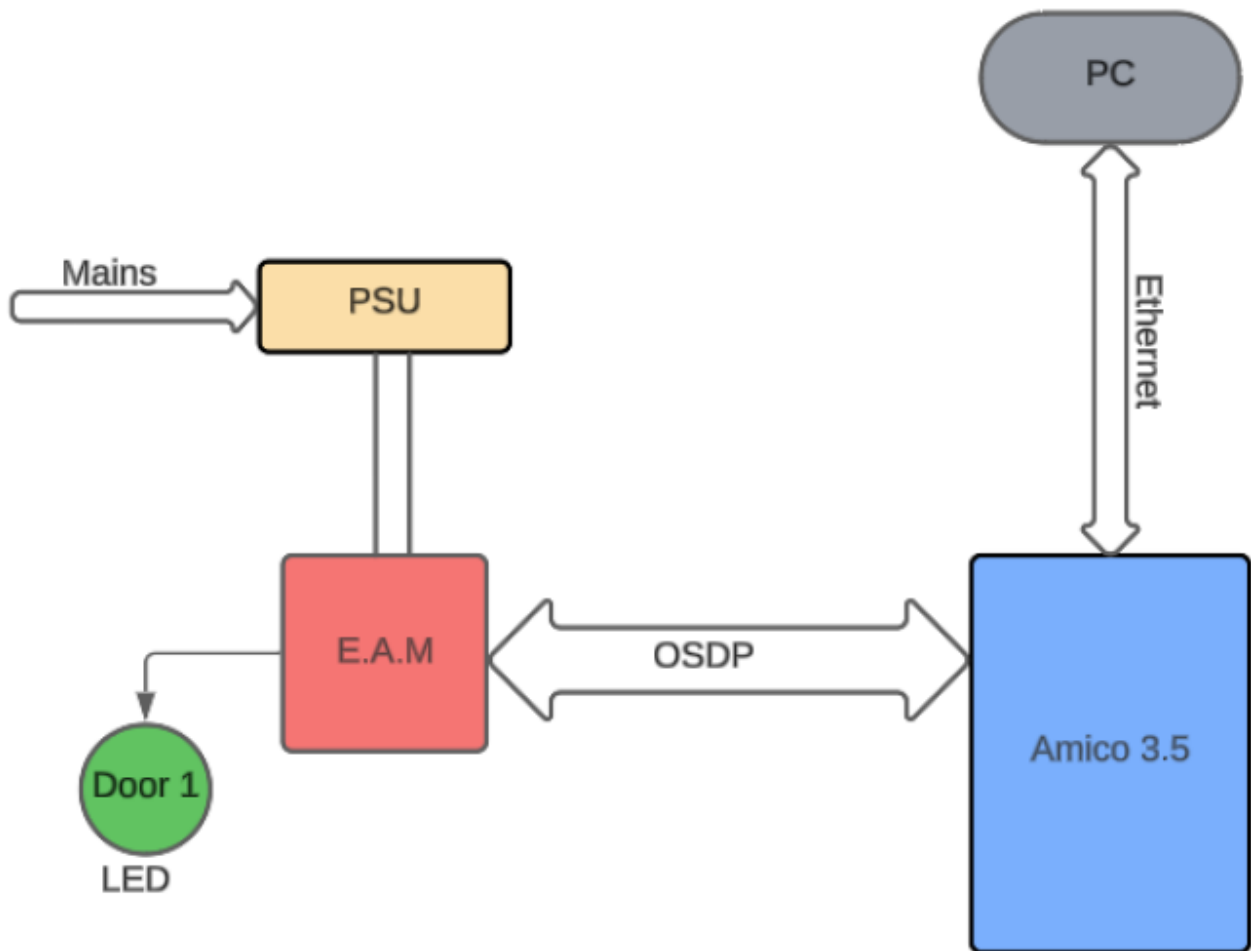


Figure 1. Block Diagram of Test Configuration

F. Equipment Configuration

The EUT was set up as outlined in Figure 1 above. A 125kHz RFID credential was placed in front of the HID Amico Facial Reader which was configured to allow continuous reading of the enrolled 125kHz credential.

G. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

Ref. ID	Name/Description	Manufacturer	Model Number	Customer Supplied Calibration Data
	Smart Phone	Motorola	Moto E7	N/A
	Smart Phone	Samsung	Galaxy A03	N/A
	Laptop	Asus	M509D	N/A
	Power Supply	XP Power	VEC65US12	N/A

Table 5. Support Equipment

H. Ports and Cabling Information

Ref. Id	Port Name on EUT	Cable Description or reason for no cable	Qty	Length as tested (m)	Max Length (m)	Shielded? (Y/N)	Termination Box ID & Port Name
	LAN	Ethernet cable for web interface		3 meters	100	Yes	PC
	DC/RS485	Power and data		3 meters	1219	Yes	Extended Access Module/Door controller
	USB	NONE - for configuration only		N/A	N/A	No	

Table 6. Ports and Cabling Information

I. Mode of Operation

A 125kHz RFID credential was placed in front of the HID Amico Facial Reader which was configured to read enrolled 125kHz credentials continuously when presented.

J. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

K. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Controlid Industria e Comercio de Hardware e Servicos De Tecnologia Ltda upon completion of testing.

Antenna Requirements

§ 15.203 Antenna Requirement

Test Requirement: **§ 15.203:** An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

- a.) Antenna must be permanently attached to the unit.
- b.) Antenna must use a unique type of connector to attach to the EUT.
- c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

Test Results: The HID Amico Facial Reader was compliant with this requirement. The antenna is permanently attached to the unit.

Test Engineer(s): Bryan Taylor

Test Date(s): 6/3/2025

Conducted Emissions

§ 15.207(a) Conducted Emissions Limits

Test Requirement(s): § 15.207 (a): For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency range (MHz)	§ 15.207(a), Conducted Limit (dB μ V)	
	Quasi-Peak	Average
* 0.15 - 0.5	66 - 56	56 - 46
0.5 - 5	56	46
5 - 30	60	50

Table 7. Conducted Limits for Intentional Radiators from FCC Part 15 § 15.207(a)

Note: *Decreases with the logarithm of the frequency.

RSS-GEN (8.8) AC Power-Line Conducted Emissions Limits

Test Requirement(s): **RSS-GEN (8.8):** Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in the below figure, as measured using a 50 μ H / 50 Ω line impedance stabilization network (LISN). This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in the below figure shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Frequency (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
* 0.15-0.5	66 to 56	56 to 46 ¹
0.5-5	56	46
5-30	60	50

Table 8. AC Power Line Conducted Emissions Limits

Note: *Decreases with the logarithm of the frequency.

Test Procedure: The EUT was placed on a 0.8 m-high non-conducting table above a ground plane. The EUT was situated such that the back of the EUT was 0.4 m from one wall of the vertical ground plane, and the remaining sides of the EUT were no closer than 0.8 m from any other conductive surface. The EUT was powered from a 50 Ω /50 μ H Line Impedance Stabilization Network (LISN). The EMC receiver scanned the frequency range from 150 kHz to 30 MHz. Conducted Emissions measurements were made in accordance with *ANSI C63.10-2013 "Procedures for Compliance Testing of Unlicensed Wireless Devices"*. The measurements were performed over the frequency range of 0.15 MHz to 30 MHz using a 50 Ω /50 μ H LISN as the input transducer to an EMI receiver.

Test Results: The HID Amico Facial Reader was compliant with this requirement.

Test Engineer(s): Frank Hernandez

Test Date(s): 5/27/2025

Conducted Emissions Voltage Test Setup

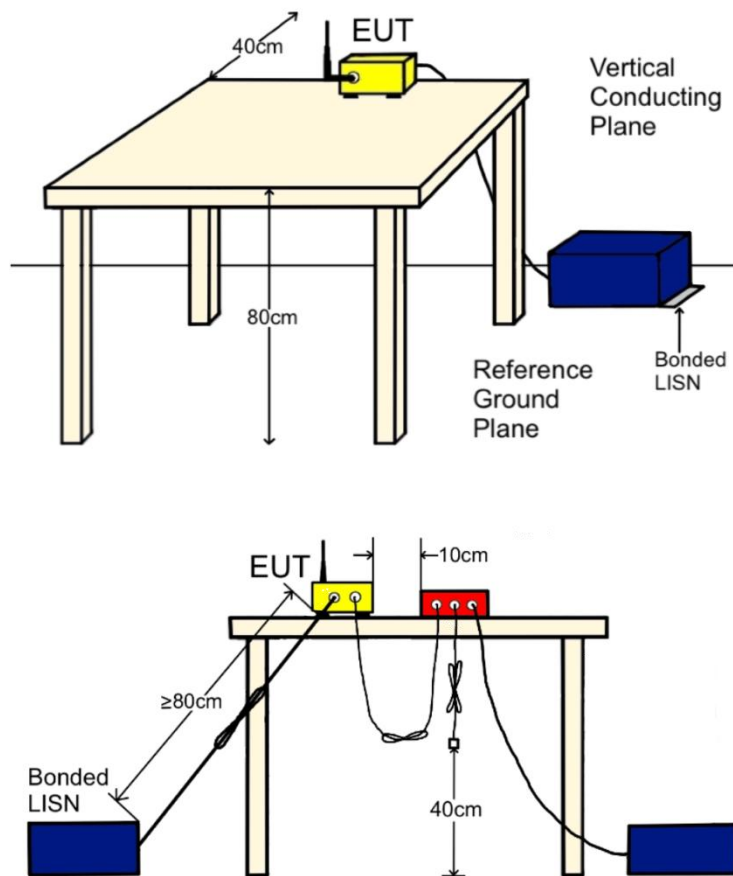
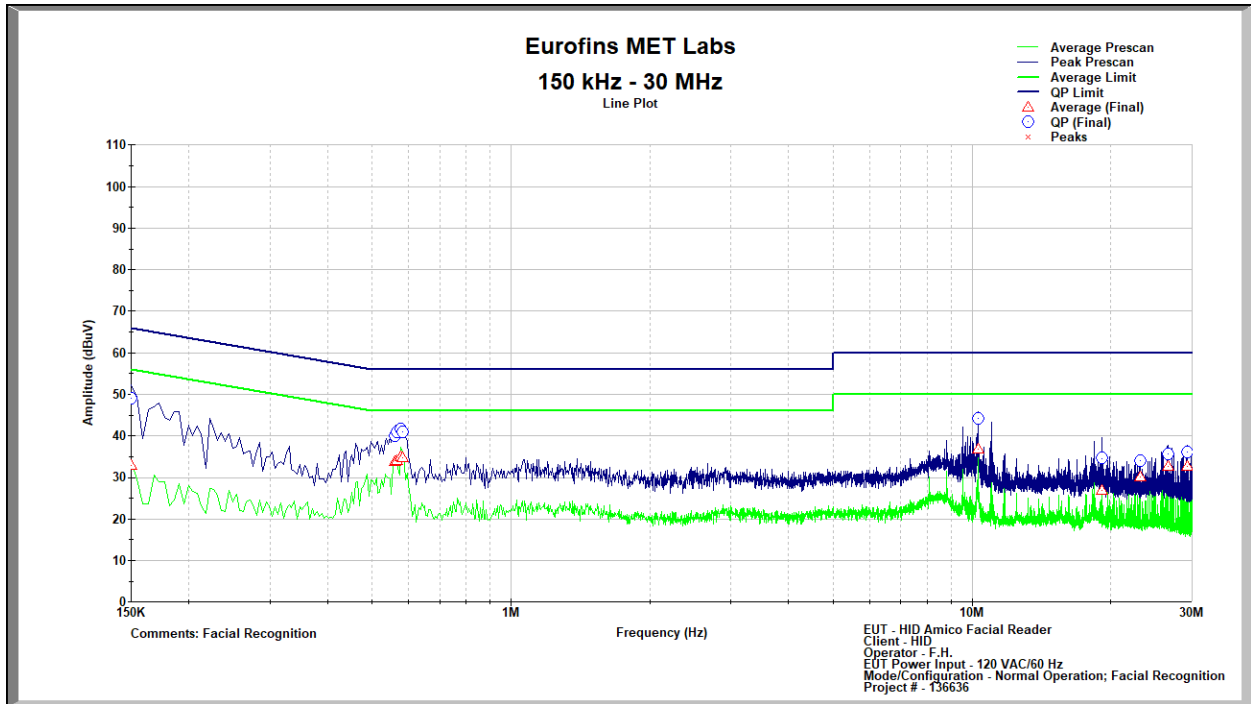


Figure 2. CEV Test Setup

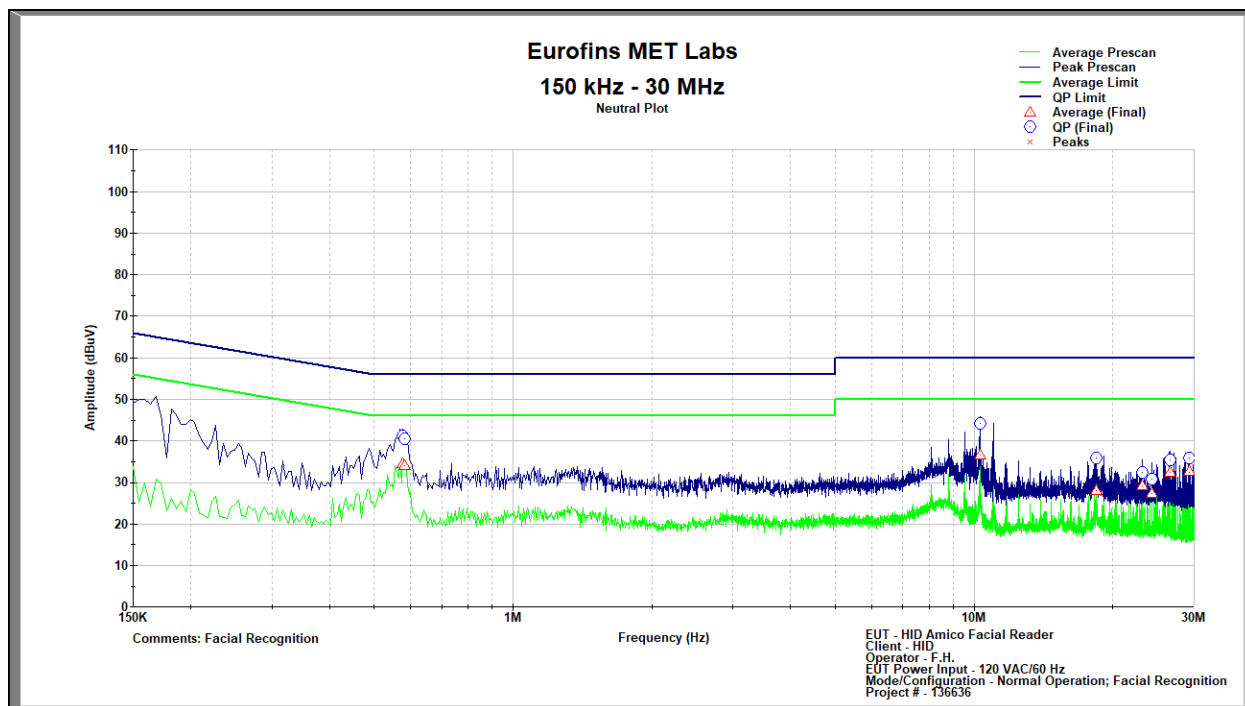
15.207(a) Conducted Emissions Test Results



Conducted Emissions, 15.207(a), Phase

Frequency (MHz)	Quasi-Peak (dBμV/m)	Quasi-Peak Limit (dBμV/m)	Quasi-Peak Margin (dB)	Average (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)
0.150	49.108	66.000	16.892	32.857	56.000	23.143
0.559	39.990	56.000	16.010	33.751	46.000	12.249
0.564	40.895	56.000	15.105	34.092	46.000	11.908
0.578	41.568	56.000	14.432	34.969	46.000	11.031
0.582	40.978	56.000	15.022	34.638	46.000	11.362
10.293	44.301	60.000	15.699	36.905	50.000	13.095
19.117	34.594	60.000	25.406	26.799	50.000	23.201
23.128	34.090	60.000	25.910	30.048	50.000	19.952
26.613	35.608	60.000	24.392	32.612	50.000	17.388
29.238	36.034	60.000	23.966	32.703	50.000	17.297

Table 9. Conducted Emissions, 15.207(a), Phase, Test Results



Conducted Emissions, 15.207(a), Neutral

Frequency (MHz)	Quasi-Peak (dBμV)	Quasi-Peak Limit (dBμV)	Quasi-Peak Margin (dB)	Average (dBμV)	Average Limit (dBμV)	Average Margin (dB)
0.578	41.105	56.000	14.895	34.530	46.000	11.470
0.582	40.457	56.000	15.543	34.090	46.000	11.910
10.293	44.092	60.000	15.908	36.642	50.000	13.358
18.380	35.779	60.000	24.221	27.926	50.000	22.074
23.133	32.342	60.000	27.658	29.141	50.000	20.859
24.354	30.911	60.000	29.089	27.420	50.000	22.580
26.613	35.356	60.000	24.644	32.385	50.000	17.615
29.238	35.819	60.000	24.181	32.511	50.000	17.489

Table 10. Conducted Emissions, 15.207(a), Neutral, Test Results

Occupied Bandwidth Measurements

§ 15.215(c) 20 dB Occupied Bandwidth

Test Requirement(s): § 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure: The transmitter was on and transmitting at the highest output power. The bandwidth of the fundamental frequency was measured with the spectrum analyzer. Per ANSI C63.10: 2020 the RBW should be between 1% and 5% of the occupied bandwidth.

Test Results: The HID Amico Facial Reader was compliant with this requirement.

Test Engineer(s): Bryan Taylor

Test Date(s): 7/10/2025

RSS-GEN (6.7) 99% Occupied Bandwidth

Test Requirements: The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

Test Procedure: The EUT was on and transmitting at the highest output power. The bandwidth of the fundamental frequency was measured with the spectrum analyzer. Per ANSI C63.10: 2020 the RBW should be between 1% and 5% of the occupied bandwidth.

Test Results: The HID Amico Facial Reader was compliant with this requirement.

Test Engineer(s): Bryan Taylor

Test Date(s): 7/10/2025

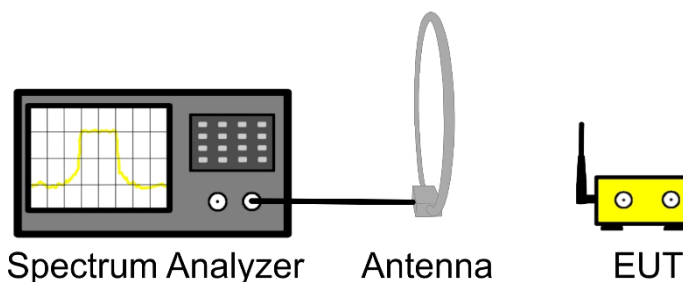
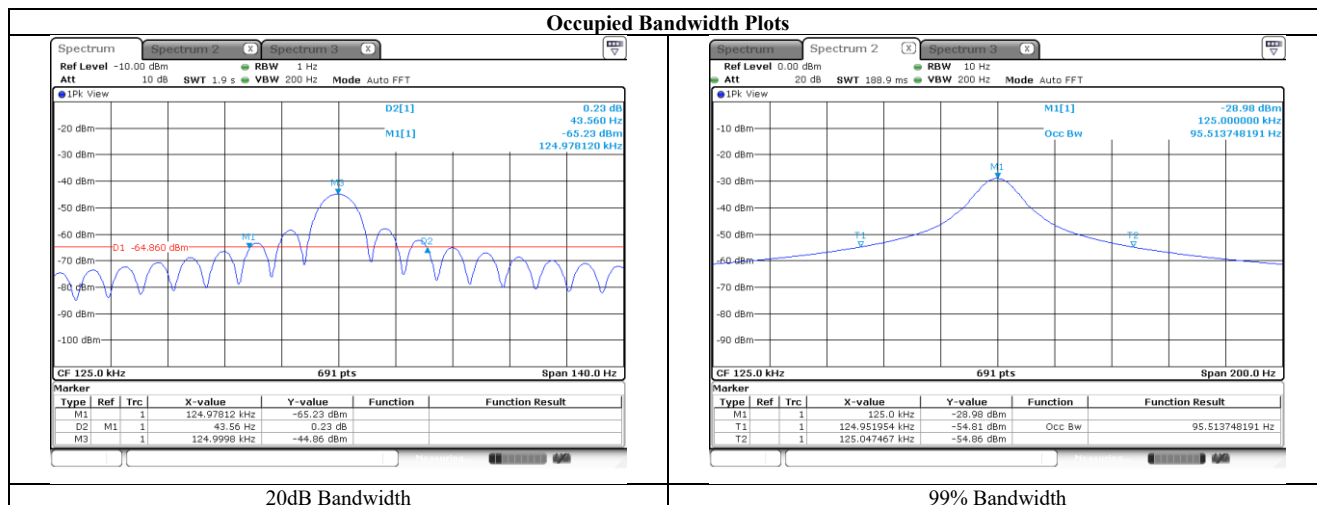


Figure 3. 20 dB Bandwidth and 99% Bandwidth Test Setup

Center Frequency (kHz)	20 dB Bandwidth	99% Bandwidth
125kHz	43.56Hz	95.51Hz

Table 11. Occupied Bandwidth Test Results



Electromagnetic Compatibility Criteria for Intentional Radiators

Radiated Emissions Limits; General Requirements

Test Requirement(s):

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 (40dBuV/m) **	3
88-216	150 (43.5dBuV/m)**	3
216-960	200 (46.0dBuV/m)**	3
Above 960	500 (54.0dBuV/m)	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.		

(b) In the emission table above, the tighter limit applies at the band edges.

(c) The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission. For intentional radiators which operate under the provisions of other sections within this part and which are required to reduce their unwanted emissions to the limits specified in this table, the limits in this table are based on the frequency of the unwanted emission and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.

(d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

(e) The provisions in [§§ 15.31](#), [15.33](#), and [15.35](#) for measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

(f) In accordance with [§ 15.33\(a\)](#), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in [§ 15.109](#) and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in [§ 15.205](#), the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in [§ 15.109](#) that are applicable to the incorporated digital device.

(g) Perimeter protection systems may operate in the 54–72 MHz and 76–88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.

RSS-210 (7.2) General Field Strength Limits

Test Requirement(s): RSS-Gen includes the general field strength limits of unwanted emissions, where applicable, for transmitters and receivers operating in accordance with the provisions specified in this standard.

Unless otherwise indicated, unwanted emissions of transmitters and receivers are permitted to fall within the restricted frequency bands listed in RSS-Gen and the TV bands 54-72 MHz, 76-88 MHz, 174-216 MHz and 470-602 MHz; however, fundamental emissions are prohibited in these bands, except where equipment operation is permitted in the applicable RSS.

RSS-Gen (8.9) Transmitter Emission Limits

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5 – General field strength limits at frequencies above 30 MHz		
Frequency (MHz)	Field strength (µV/m at 3 m)	
30 – 88	100	
88 – 216	150	
216 – 960	200	
Above 960	500	

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (µA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Test Procedure:

The EUT was set to transmit and placed on a 0.8 m-high wooden stand inside a semi-anechoic chamber. The method of testing and test conditions of ANSI C63.10: 2013 were used. For measurements below 30 MHz a loop antenna placed 3m away from the unit was used. For measurements above 30 MHz a biconalog antenna placed 10 m away from the unit was used. Measurements below 30 MHz were conducted with the loop antenna at coaxial (parallel) and planar (perpendicular) orientations. Measurements above 30 MHz were conducted with the biconalog antenna in the vertical and horizontal polarizations. A peak detector was used to perform a pre-scan from 9 kHz to 10 times the fundamental frequency. Spurious emissions within 20 dB of the applicable limit were measured using a quasi-peak detector and recorded in the subsequent section. Peak emissions that were observed over the applicable limit were determined to be digital emissions subject to the requirements of FCC Part 15 Subpart B and ICES-003 subsection 6.2 for Class A devices.

The measurements made at 3 m with the loop antenna (below 30MHz) were then extrapolated to 30m or 300 m using the following correction factors which were applied to the limit.

$$40\log(30/3) = 40 \text{ dB}$$
$$40\log(300/3) = 80 \text{ dB}$$

The measurements made at 10 m with the biconilog antenna (above 30MHz) were then extrapolated to the 3m using the following correction factor which were applied to the limit.

$$20\log(10/3) = 10.46 \text{ dB}$$

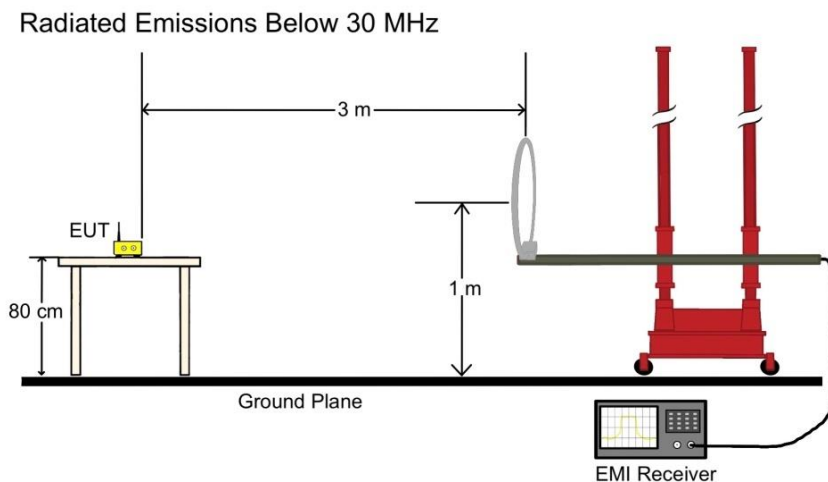


Figure 4: Radiated Emissions (Below 30MHz), Test Setup

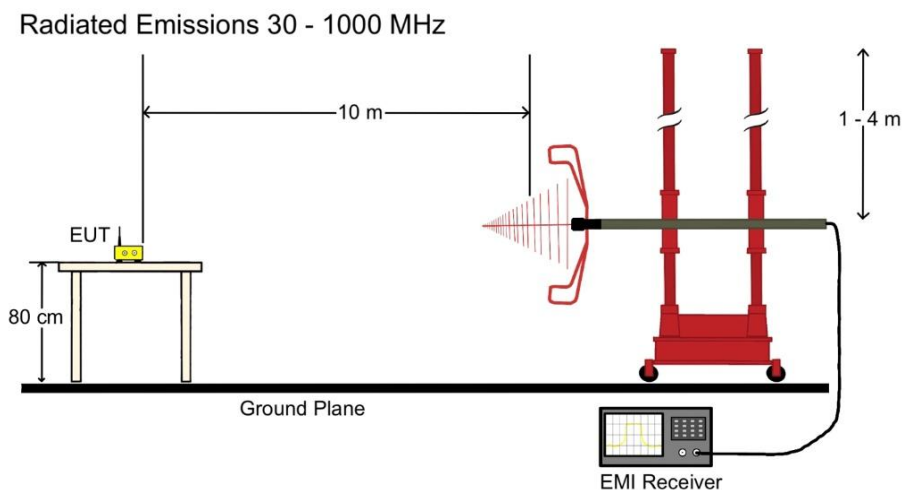


Figure 5. Radiated Emissions (Above 30MHz), Test Setup

Test Results: The HID Amico Facial Reader was compliant with the general radiated emission limits.

Test Engineer(s): Bryan Taylor

Test Date(s): 6/2/2025

Frequency [MHz]	Peak Level [dBμV/m] ¹	Limit [dBμV/m]	Margin [dB]	Correction [dB] ²	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Result
0.047	9.27	114.24	104.97	11.99	V	360	1.00	0.200	Pass
0.047	54.28	114.08	59.80	11.89	H	261.1	1.00	0.200	Pass
0.125	53.44	105.66	52.22	11.31	H	23.6	1.00	0.200	Pass
0.125	9.03	105.66	96.63	11.31	V	151.6	1.00	0.200	Pass
0.150	56.03	104.08	48.04	11.26	H	285	1.00	9.000	Pass
0.582	27.10	72.30	45.20	11.39	V	318.3	1.00	9.000	Pass
19.122	27.80	69.50	41.70	10.32	H	301.7	1.00	9.000	Pass
21.233	21.64	69.50	47.86	9.98	V	130.4	1.00	9.000	Pass

Table 12. Radiated Spurious Emissions 9kHz – 30MHz

Frequency [MHz]	QPK Level [dBμV/m] ¹	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB] ²	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Comment
31.110	20.35	29.55	9.20	-1.67	V	181.2	3.85	120.000	Pass
31.440	21.27	29.55	8.28	-1.25	H	260.1	1.61	120.000	Pass
64.740	12.65	29.55	16.90	-12.88	V	291.7	1.94	120.000	Pass
95.640	23.75	33.07	9.32	-11.08	V	80.6	1.14	120.000	Pass
122.040	15.36	33.07	17.71	-6.46	V	123.4	1.24	120.000	Pass
149.220	17.76	33.07	15.31	-7.71	V	275.1	0.99	120.000	Pass
191.400	27.85	33.07	5.22	-8.32	H	360	3.98	120.000	Pass
316.860	18.88	35.57	16.69	-4.76	V	203.8	1.14	120.000	Pass
332.400	20.33	35.57	15.24	-4.60	V	230.8	1.28	120.000	Pass
455.850	23.75	35.57	11.82	-1.48	V	173.8	3.05	120.000	Pass
528.060	19.80	35.57	15.77	-0.10	H	221.2	1.87	120.000	Pass
723.660	17.04	35.57	18.53	3.44	V	4.7	3.14	120.000	Pass
845.010	19.61	35.57	15.96	5.40	H	46.2	1.40	120.000	Pass
933.420	27.29	35.57	8.28	7.29	V	314.2	2.97	120.000	Pass

Table 13. Radiated Spurious Emissions Above 30MHz

¹ This corrected level includes the factor shown in the “correction” column. The corrected level = Raw Reading + Correction Factor. The raw reading is not shown in the table above.

² This correction factor includes cable loss in dB, preamplifier gain in dB, and an electric field antenna factor in (dB/m) or magnetic antenna factor in dB(S/m).

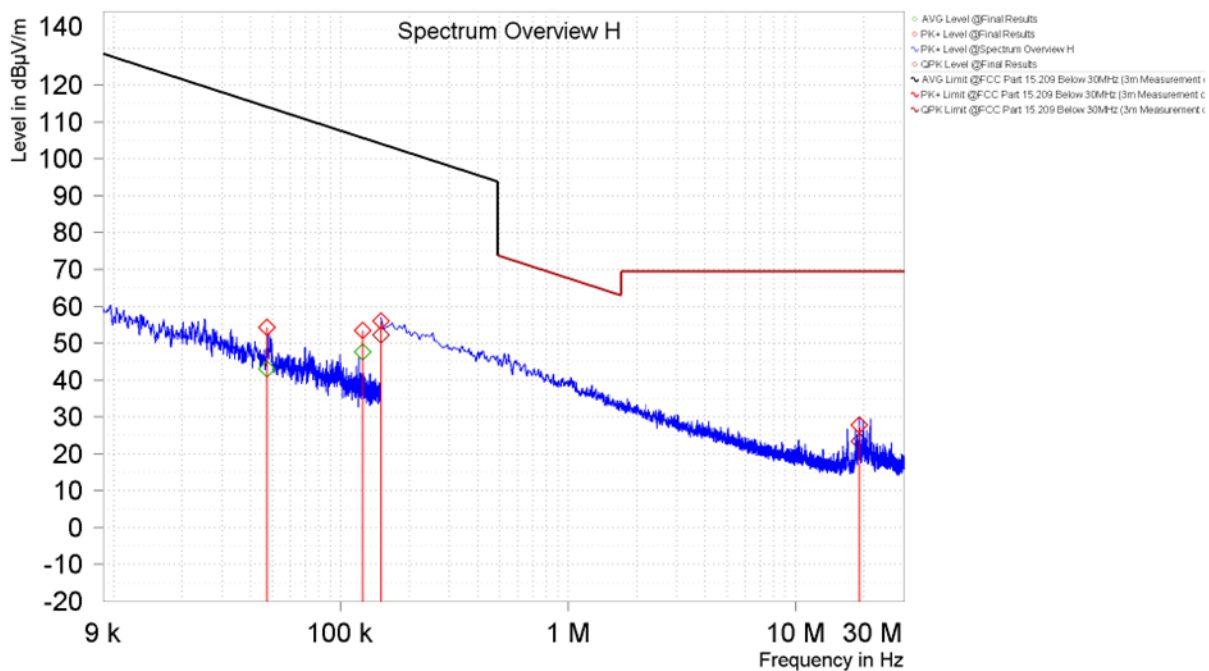


Figure 6. Spurious Emissions Below 30MHz, (Coplanar Loop)

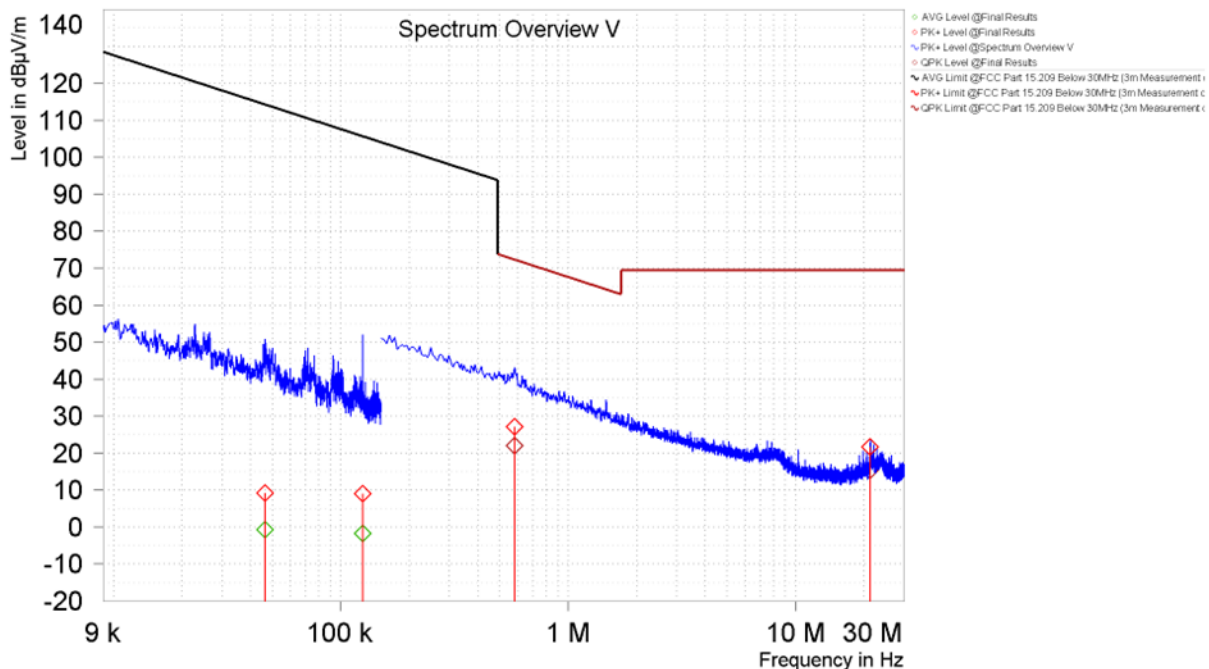


Figure 7. Spurious Emissions Below 30MHz, (Coaxial Loop)

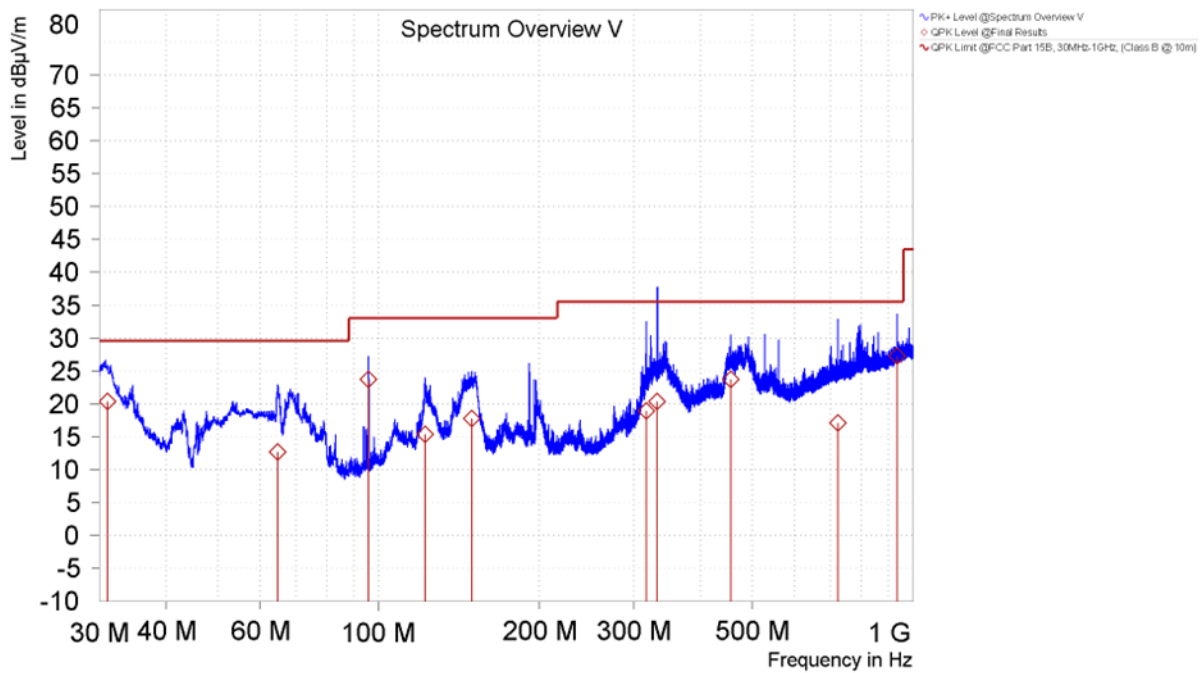


Figure 8. Spurious Emissions 30MHz – 1GHz, (Vertical Polarity)

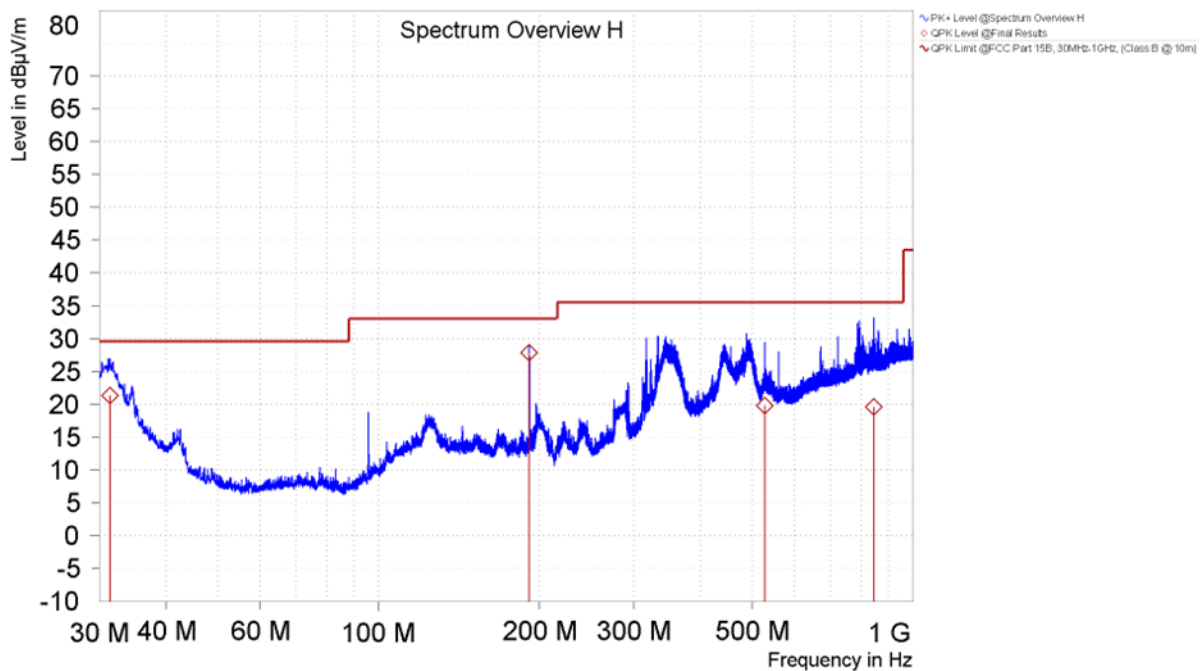


Figure 9. Spurious Emissions 30MHz – 1GHz, (Horizontal Polarity)

Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

MET Asset #	Description	Manufacturer	Model	Last Cal Date	Cal Due Date
1A1234	FSV Signal Analyzer	Rohde & Schwarz	FSV 40	03/13/2025	03/13/2026
1A1250	EMI Test Receiver	Rohde & Schwarz	ESW44	03/28/2025	03/28/2026
1A1176	Active Loop Antenna (9KHz-30MHz)	ETS-Lindgren	6502	08/22/2024	08/22/2025
1A1050	Bi-Log Antenna	Schaffner	CBL-6112D	03/05/2024	03/05/2026
1A1065	EMI Test Receiver	Rohde & Schwarz	ESCI	08/20/2024	08/20/2025
1A1177	Pulse Limiter	Rohde & Schwarz	ESH3Z2	12/11/2024	12/11/2025
1A1149	DC Milli-Ohm Meter	GW Instek	GOM-802	10/15/2024	10/15/2025
3A3377	Thermohygrometer with barometer	Omega	Q68706	03/31/2025	03/31/2026
1A1257	True-RMS Multimeter	Fluke	179	02/07/2025	02/07/2026
1A1123	LISN	TESEQ	NNB 51	12/11/2024	12/11/2025
1A1225	Environmental Chamber	Espec	EXP-2H/New	5/16/2025	5/16/2026
1A1099	Generator	Com-Power	CGO-51000	See Note	
1A1044	Generator	Com-Power	CG-520	See Note	
1A1073	Multi Device Controller	ETS	2090	See Note	
1A1074	System Controller	Panasonic	WV-CU101	See Note	
1A1080	Multi-Device	ETS	2090	See Note	
1A1180	Preamplifier	Miteq	AMF-7D-01001800-22-10P	See Note	

Table 14. Test Equipment List

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

End of Report